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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/742,029	12/20/2000	Guoheng Zhao	M-10696 US	8669	
36257	7590 05/09/2003				
PARSONS HSUE & DE RUNTZ LLP			EXAMINER		
SUITE 1800	OMERY STREET		SMITH, ZANDRA V		
SAN FRANC	CISCO, CA 94111		ART UNIT	PAPER NUMBER	
			2877	2877	
			DATE MAILED: 05/09/2003	DATE MAILED: 05/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
•	09/742,029	ZHAO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Zandra V. Smith	2877			
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on	·				
	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-101</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-33 and 39-100</u> is/are allowed.					
6)⊠ Claim(s) <u>34,35 and 101</u> is/are rejected.					
7)⊠ Claim(s) <u>36-38</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner	•				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)	o priority under 33 0.0.0. 33 120	GIIGIOI IZI.			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

Claims 34 and 99 are objected to because of the following informalities: there is no antecedent for "the first instrument" in claim 34 and "waferin" is presented in claim 99.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 34-35 are rejected under 35 U.S.C. 102(b) as being anticipated by *Chen et al.* (5,581,350).

As to claims 34-35, Chen discloses a system for calibrating an ellipsometer, comprising: a radiation source for directing polychromatic radiation to a structure (col. 12, lines 25-30);

optics collecting radiation from the structure (col. 13, lines 40-50);

at least one detector comprising a spectrometer for collecting a plurality of wavelengths simultaneously (col. 14, lines 35-50); and

an instrument causing motion between the sample and the measurement system (col. 14, lines 22-35).

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Claims 101 is rejected under 35 U.S.C. 102(b) as being anticipated by *Moore* (5,872,632).

As to claim 101, Moore discloses a cluster tool layer thickness measurement system, comprising:

transferring a wafer from a process tool to a measurement station, positioning a measurement spot of an optical head of a measurement instrument within the measurement station over a first location of the wafer, rotating and translating the wafer, repeating rotation and translation; and measuring an optical characteristic of the wafer (col. 3, lines 3-33).

Allowable Subject Matter

Claims 1-33 and 39-100 are allowable over the prior art of record.

Claims 36-38 are objected to as being dependent on a rejected base claim.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record, taken alone or in combination, fails to disclose or render obvious determining the structure of a periodic structure using multiple polarization states, different optical paths with the same path length or processing data using a model of periodic structures on the surface of a sample.

Response to Arguments

Applicant's arguments with respect to all pending claims have been considered but are most in view of the new ground(s) of rejection.

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Fax/Telephone Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zandra V. Smith whose telephone number is (703) 305-7776. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (703)308-4881. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305 0530.

Zandra V. Smith Primary Examiner Art Unit 2877

May 5, 2003